

A WASHINGTON correspondent says: "I think the tariff is the only issue by which the Republicans can ever hope to break the solid South." We believe it will be long after this day after this day and generation when even the tariff will fail. Each one of the 106 electoral votes from the South is almost assured to the Democratic candidate for President regardless of whatever disturbing element may arise. On the colored plan, "I'm a Baptist till I die," the Democrats of the South are Democrats for all time in the term, and it seems to us Republicans are wasting their time in exhorting themselves with the belief they may secure here or there in the South a few electoral votes. All the political prohibition votes that may be secured from that section in all the Southern States wouldn't make a decent showing at a country muster of militia. The people don't stand any foolishness of that kind. Virginia, North Carolina and perhaps another State or two may be very close, but should either one of them be carried for the Republicans it may be regarded as an accident or a miracle. A gentleman, a resident of the South, recently said to us: "The South is Democratic and will so remain. You may see where the vote for a candidate is small, but the reason is this, that the voters know after a man is nominated, there is no doubt of his election. But let there be danger and the Democrats will come swarming in from all the nooks and fastnesses in support of their candidate." He did not overestimate the situation, as has been evinced to the satisfaction of all who think.

THOS. J. POTTER, the new vice-president of the Union Pacific, has been criticised in some circles for his movements in curtailing forces and reorganizing. A contemporary says: "A personal acquaintance of many years with the gentleman under discussion leads us to suggest that Mr. Potter thoroughly understands himself and the business of managing railroads." In 1872 he was a clerk in the office of A. E. Tozolini, general passenger agent of what was then the Burlington & Missouri River road, and in 1876 he was vice president and general manager of the same road, when consolidated with the Chicago, Burlington & Quincy. This additional suggestion is made: Kansas papers have always complained that the Union Pacific was managed by eastern men, who knew little or nothing of the west, and for their own aggrandizement, without any consideration for the territory which supports it. There is now a man with his hand on the throttle who is broad enough to see both sides, and let us suspend our criticism until he has time to put affairs in shape. If the vice president is not too circumscribed by existing complications the Union Pacific road will serve the interest of the people as generously as any line in Kansas, and when his face is seen among us it will be the face of a friend.

GOVERNOR CLEVELAND'S substitute called a few days ago. This event has called out the following from Wall Mason, the young Kansas editor, who lately removed from Atchison to Lincoln, Neb.: Into the depths of a lonely grave, into his home in the silent city, out in the field where the wind whistles. Somebody's soldier was laid one day; Somebody paid for the coffin plain, Somebody planted a willow tree, Somebody smoothed a pang of pain—say was it Grover? Alas, no! he! Somebody's soldier was young and strong, with a fearless heart and sturdy limb, when Grover came up with a cheerful tongue, and hired him to do the war for him. Somebody's soldier went off to fight, where the field was red with the glory slain, he stood in a region of fire and shot, while hundreds fell in the twinkling of an eye. Years passed on and the soldier grew old and weak, decreed and wan; thick on his brow was the deathly dew, and the fire from his weary eyes had gone. Somebody's soldier has died in want, and a pauper's shroud is upon his breast, and still do the banners of Grover float, as he plans his trip to the golden west. Somebody's soldier is in a tomb, where gnaws his flesh the grizzling worm, while Grover is scheming to raise a boom, that will boost him into a second term. Somebody's soldier will wear a crown, and never a soul be by his side, and he'll sweetly smile as he gazes down, in a year or so when Grover's left.

COL. ANTHONY, of the Leavenworth Times, places a quietus on the story that he will not attend the morning paper in Wichita in the event of his selling the Times, with the following refreshing paragraph: The statement is profusely volunteered by the daily press of the state that in case of D. R. Anthony's retirement from the Times he will establish a morning paper at Wichita. Really, we are much obliged for the information, not ever having heard of the proposed project before. We hope we are not presuming too much upon the generosity of these papers in requesting them to kindly notify us if they ever hear of such a thing, as we are now busy establishing a second morning paper in Wichita. We should say not!

J. R. HALLOWELL, assistant attorney-general for the city of Wichita, writes Attorney-General Bradford, citing several cases which have been lodged against a number of "vintners" in the city, and indicating the number of counts contained therein is 1,300. In this connection Mr. Bradford says the only cities where the liquor law is still violated are Wichita, Argentine, Harper, Dodge City, Ellsworth, Kiowa and Ellis. Rays look out for watermelons guarded by toads and during needles. Mr. Fred Terry made a trip to Salina last Tuesday. Messrs. O. Boland, G. A. Talbot and Holmes, of Falun, were in our city last Monday. Mr. Walter Paul, of the firm of J. R. Paul & Sons, left Monday to accept a position on the C. R. L. & P. R. R. Success to Mr. Walter. Mr. Arthur Hawley left last Sunday for Salina, and from there he went to accept a position with Brodus Bros., at Geneva, as time keeper. We wish him success in his new venture. Ed Metter, who for the past week has been on the sick list, is again able to be out. Henry Meila and Walter Halpin left for Salina last Tuesday to work on the L. & S. W. R. R. Mr. J. Ewing and sister, Miss Emma, of Hardin, Ohio, are visiting their brother Mr. Will Ewing who is very sick. A valuable coil belonging to Mr. A. F. White, of Salina, was damaged last Monday by running into a barb wire fence on Mr. Shute's place near here. The festival given by the ladies of the two churches of this place last Saturday was a success. Come again ladies before it is too late. A dance will be given by the members of the base ball club of this place at Casey's grove next Friday. Come everybody and help the boys along. Plenty of good refreshments on the grounds. Aug. 25, 1887. I know.

TORNADOES AND CYCLONES.

The Difference in the Formation of Tornadoes and Cyclones.

When the conditions of atmospheric instability have given birth to a tornado, the fact is announced to the observer by a sudden gathering of dark, swirling clouds, from which descend a whirling, serpentine body formed of condensed vapor. This whirling column extends rapidly downward until it touches the earth. When it attains the surface it becomes audible from the violent rattling noise which it creates upon the surface. As soon as the whirl is created it begins to move—generally toward the northeast—for the evident reason that the upper cold layer of air against which it originates has, in the northern hemisphere, a movement in that direction. In its path over the surface the circling movement of the whirling air and the sucking action of the partial vacuum in the central portion of the shaft combine to bring about an extreme devastation. On the outside of the whirl the air, which rushes in a circling path toward the vortex, overturns all movable objects, and in the center these objects, if not too heavy, are sucked up as by a great air-pump. Thus the roofs of houses—bodies of men and animals—may be lifted to great elevations, until they are tossed by the turbulent movements beyond the limits of the seeing eye, and fall upon the earth. Where the center of the whirling passes over a building the sudden decrease in the pressure of the outer air often causes the atmosphere which is contained within the walls suddenly to press against the sides of the structure, so that these sides are quickly driven outward as if by a charge of gunpowder. It is not unlikely that the diminution of pressure brought about by the passage of the interior of the whirl over the building may be about as much as is indicated by the fall of four inches in the barometer. This is equivalent to a change in the pressure amounting to about three hundred pounds to the square foot. This force operates to burst out the walls of a building. It is not impossible that the diminution of pressure may be much greater than this, but even the amount named is sufficient to account for the bursting out of the frail-walled structures which these devastating movements encounter in the western parts of the United States.

The way in which these tornadoes are formed differs in certain essential particulars from the way in which whirlwinds are created, as has been well shown by Prof. Ferrel. The most important points of difference are as follows: The tornado is formed on the heating of a thin layer of air near the ground. The small mass of this layer prevents its upward whirling from bringing about any powerful movements of the atmosphere. In the tornado the heat of the lower air has the effect of driving the air upward for the same reason that the thin layer of dry air which forms the dust whirl is impelled upward, but on account of its great mass the intensity of the upward impulse is far greater. In the sand-whirl the upward motion begins close to the earth's surface, and the reason that the stratum which is impelled upward is very thin, but in the tornado the stratum of heated air is usually about a thousand feet thick; therefore its whirling action naturally originates at the upper surface of the layer, for it is at that point the upward motion begins. Starting in this upper region, the whirl extends progressively downward, just as in the bath-tub the whirl extends progressively upward from the point at which the motion originated, and the surface of the whirl is the surface of the earth. When these whirls begin they only involve a small part of the air about the point of origin, and so the acquired velocity of the portions when they come to the center is not great; but gradually they suck up air faster and faster, and at the end of the supply becomes larger, and the particles move from a greater distance, they approach that center with greater speed, and the spiral winds and turns with accelerated velocity. Fortunately the portion of tornadoes are ordinarily very narrow—the widest have a diameter of only forty feet. In most cases a tornado is seriously destructive over a width not exceeding five hundred feet. The length of the tornado's path across the country does not commonly exceed thirty miles, and it generally traverses the distance in about an hour. When the upward corker motion of the outer part of the spiral and the whirling of the air through the central shaft have drained away the air, the warm air which gave birth to the motion, the tornado dies away. The equilibrium of the air-masses is for a time restored, the heavier air has fallen down upon the surface, and the warm air, spreading laterally as it attains the level to which it tends, comes into a state of quiet. Ascending the width of the destruction brought about by the storm at six hundred feet, and the length of its journey at thirty miles, we find that the area of its devastation amounts to about two thousand acres, or to a square area about two miles on a side. Over this area the destruction is ordinarily more complete than that which occurs in the most severe earthquakes.—N. & S. Shaler, in Scribner's Magazine.

HOW COMETS ARE FOUND. Interesting information imparted by Astronomer Barnard. Prof. E. R. Barnard, the astronomer of the Vanderbilt University, was asked the other day how comets are found. "Besides a knowledge of astronomy and a telescope," was his reply, "the comet-seeker must have a large stock of patience and perseverance." "But will you not tell me how you do it?"

Then, pleasantly, as Mr. Barnard always does things, he showed his instruments of observation, the while talking of his work in a most entertaining way. But before making an effort to repeat the substance of "how a comet is sought" the reporter would say a word about the "tools" with which the astronomer works. In the low, solidly-built, spherical-roofed observatory are three telescopes. Each of these is on foundations of stone, set upon the solid rock far down in the ground. One is immovable, except in a single direction. It is hung between two massive posts of stone and metal, so as to sweep a narrow strip of sky from north to south. This is used for watching the stars cross the meridian, and regulate the time. Another, and larger one, which is used for comet seeking, is hung upon a pedestal, so that it can turn in any direction by means of very simple and easily managed mechanism. One of the most intelligent and useful of the many instruments in the observatory is the chronograph. This is

an ingenious little machine, run by clockwork, and which, by means of electric connections, the observer can note the exact time, to the hundredth part of a second, that a star crosses the meridian. The working of this can not well be described. In the same room are three different electric clocks, which are kept for the regulation of the lower clock. While these instruments are being shown and their uses explained, the astronomer gave the information about comet-seeking, which the reporter gives below. The reader would be much more pleased with the story than it was told by Mr. Barnard, if he could get it that way—which he can not.

Comet seeking requires more patience and perseverance than the average reader would be aware of. No one can tell whether a comet is anywhere visible in the sky, so the patient searcher begins to examine the heavens in hopes that he may discover one of these wanderers as it steals in from the depths of space on its pilgrimage to the sun. There is a strong intuition that the region near the sun will more likely yield a comet, so that the comet searcher pays special attention mornings and evenings to that region. This is natural, because comets being non-luminous masses of gas, they are very faint, or only become visible when they have approached comparatively near the sun.

They should, therefore, be more likely to be found when so placed, yet this rule is not infallible inasmuch as in the past few years quite as many if not more comets have been found in that part of the sky opposite the sun or in fact distributed equally all over the heavens. But here are all hints and require close searching and diligence on the part of the comet-seeker. When it is known that any one part of the sky that can be examined at any moment by the searcher's telescope can really be scanned out by the end of the night, the searcher is not likely to be disappointed. The knowledge that the old saying, "hunting for a needle in a haystack," is infinitely too feeble in comparison with the chances of finding one of these wanderers, is a great incentive. When taken into account, one is prepared to realize the fortune told with which the comet-seeker begins his labors and easily explains why so many undertake it and give it up without having recorded one comet. 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